

September 28, 2001

PRELIMINARY AMENDMENT
Patent Application
Docket No. GJE-78

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Daniel Henry Densham
Docket No. : GJE-78
For : Polynucleotide Sequencing Using a Helicase

Box PCT
Assistant Commissioner for Patents
Washington, D.C. 20231

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8/28/02

PRELIMINARY AMENDMENT

Sir:

It is respectfully requested that the above-identified patent application be amended as follows:

In the Specification

After page 9: Please insert as new page 10, the attached Abstract of the Disclosure.

In the Claims

Please cancel claims 1-6, without prejudice.

Please add the following new claims 7-21:

7. A method for sequencing a polynucleotide, comprising the steps of:

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- (i) reacting a target polynucleotide with a helicase enzyme or a primase enzyme, under conditions suitable for enzyme activity; and
 - (ii) detecting the interaction between the enzyme and a nucleotide on the target polynucleotide, by measuring radiation.

8. The method, according to claim 7, wherein the radiation is electromagnetic.